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INTERNATIONAL SEARCH REPORT

International application No.
PCT/JP2004/013031

A. CLASSIFICATION OF SUBJECT MATTER

Int.Cl⁷ C23C14/34, C01G9/02

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
Int.Cl⁷ C23C14/34, C01G9/02

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
 Jitsuyo Shinan Koho 1922-1996 Toroku Jitsuyó Shinan Koho 1994-2004
 Kokai Jitsuyo Shinan Koho 1971-2004 Jitsuyo Shinan Toroku Koho 1996-2004

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
JICST, SCIENCE DIRECT

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X A	JP 2003-192346 A (Nippon Telegraph And Telephone Corp.), 09 July, 2003 (09.07.03), Example 1 (Family: none)	1-6 7-9
X A	JP 2001-039713 A (Nippon Telegraph And Telephone Corp.), 13 February, 2001 (13.02.01), Example 2 (Family: none)	1-6 7-9
X A	Toshihiko MATSUMOTO et al., "Kojundo Sanka Aen Nenketsutai no Denkiteki Seishitsu", Nippon Daigaku Bunri Gakubu Shizen Kagaku Kenkyusho Kenkyu Kiyo, 1981, No.16, p.5.21-5.26	1-6 7-9

Further documents are listed in the continuation of Box C.

See patent family annex.

* Special categories of cited documents:

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier application or patent but published on or after the international filing date
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"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&" document member of the same patent family

Date of the actual completion of the international search
09 December, 2004 (09.12.04)

Date of mailing of the international search report
28 December, 2004 (28.12.04)

Name and mailing address of the ISA/
Japanese Patent Office

Authorized officer

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PCT/JP2004/013031

C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X A	JP 03-050119 A (Mitsubishi Metal Corp.), 04 March, 1991 (04.03.91), Full text (Family: none)	1, 3, 6 2, 4, 5, 7-9
A	JP 07-118133 A (Sakai Chemical Industry Co., Ltd.), 09 May, 1995 (09.05.95), Full text (Family: none)	1-9
A	JP 05-017143 A (Mitsui Mining & Smelting Co., Ltd.), 26 January, 1993 (26.01.93), Full text (Family: none)	1-9
A	JP 2003-013275 A (Nippon Magnetic Dressing Co., Ltd.), 15, January, 2003 (15.01.03), Claims (Family: none)	7-9
A	JP 11-279755 A (Mitsui Mining & Smelting Co., Ltd.), 12 October, 1999 (12.10.99), Full text (Family: none)	1-6
A	US 5527519 A (BAYER AKTIENGESELLSCHAFT), 18 June, 1996 (18.06.96), Full text & EP 603627 A1 & DE 4242949 A1	1-9